

LNPA WORKING GROUP
July 10-11, 2012 Meeting
Final Minutes

Mont Tremblant, Quebec, Canada	Host: Canadian LNP Consortium
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LNPA WORKING GROUP ARCHITECTURE PLANNING
TEAM (APT) DISCUSSION:

TUESDAY 07/10/12

Tuesday, 07/10/12, Attendance:

Name	Company	Name	Company
Ron Steen	AT&T	Marcel Champagne	Neustar
Lonnie Keck	AT&T Mobility	Dave Garner	Neustar
Renee Dillon	AT&T Mobility	Mubeen Saifullah	Neustar Clearinghouse
Barb Hjelmaa	Bright House (phone)	Shannon Sevigny	Neustar Pooling (phone)
Matt Nolan	Bright House (phone)	Suzanne Addington	Sprint Nextel
Cristy Permenter	Bright House (phone)	Rosalee Pinnock	Syniverse (phone)
Marian Hearn	Canadian LNP Consortium	Joel Zamlong	Ericsson/Telcordia
Jan Doell	CenturyLink (phone)	Pat White	Ericsson/Telcordia
Brenda Bloemke	Comcast (phone)	Lisa Marie Maxson	Ericsson/Telcordia (phone)
Tim Kagele	Comcast (phone)	Adam Newman	Ericsson/Telcordia
Beth O'Donnell	Cox (phone)	John Malyar	Ericsson/Telcordia
Devang Naik	DSET	George Tsacnaris	Ericsson/Telcordia
Jim Seigler	DSET	Kayla Sharbaugh	Ericsson/Telcordia (phone)
Linda Peterman	Earthlink Business	Steven Koch	Ericsson/Telcordia (phone)
Jeff Sonnier	Ericsson (phone)	Paula Jordan	T-Mobile
Crystal Hanus	GVNW (phone)	Luke Sessions	T-Mobile
Kim Isaacs	Integra (phone)	Gary Sacra	Verizon
Bridget Alexander	John Staurulakis, Inc. (phone)	Jason Lee	Verizon (phone)
Lavinia Rotaru	Neustar	Deb Tucker	Verizon Wireless
Pamela Connell	Neustar	Imanu Hill	Vonage
Jim Rooks	Neustar	Traci Brunner	Windstream (phone)

Name	Company	Name	Company
Paul LaGattuta	Neustar	Dawn Lawrence	XO Communications (phone)
Stephen Addicks	Neustar		
John Nakamura	Neustar		

NOTE: ALL APT ACTION ITEMS REFERENCED IN THE MINUTES BELOW HAVE BEEN CAPTURED IN THE “JULY_10_2012 LNPA WG APT ACTION ITEMS” FILE ISSUED IN A SEPARATE E-MAIL FROM THESE MINUTES AND ATTACHED BELOW.



JULY_10_2012 LNPA
WG APT ACTION ITEI

MEETING MINUTES:

2012 LNPA WG Meeting/Call Schedule:

Following is the current schedule for the 2012 LNPA WG meetings and calls.

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August		No meeting.		

MONTH (2012)	NANC MEETING DATES	LNPA WG MEETING/CALL DATES	HOST COMPANY	MEETING LOCATION
		8/7/2012 APT call from 11am to 1pm Eastern time, dial-in bridge number is 888-412-7808, pin 23272#.		
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October		No meeting. 10/9/2012 call if necessary		
November		6 th -7 th	Sprint Nextel	Overland Park, Kansas
December		No meeting. 12/11/2012 call if necessary		

- Continuing evaluation during 2012 will determine if interim conference calls are needed or if the decision to meet face-to-face every other month should be revisited.

May 8, 2012 APT Meeting Minutes Review:

- No changes were made to the DRAFT May 8, 2012 APT meeting minutes, and they were approved as FINAL.

June 12, 2012 APT Conference Call Minutes Review:

- No changes were made to the DRAFT June 12, 2012 APT conference call minutes, and they were approved as FINAL.

APT Test Plan Review Team Update – John Nakamura, Neustar:

- Review of Current Turn-up Test Plan Matrix



TUT Plan - TC matrix
- chap 7 - based on R



TUT Plan - TC matrix
- chap 7 - based on R



TUT Plan - TC matrix
- chap 7 - based on R

Action Item 051011-16: Neustar and Telcordia will create a list of Vendor (ITP) and Service Provider regression test cases, identify which are Vendor (ITP) and which are regression or which are both, determine which are conditional, and which apply to the following four categories:

1. New Service Provider and New Vendor,
2. New Service Provider and Experienced Vendor,
3. Experienced Service Provider and New Vendor,
4. Experienced Service Provider and Experienced Vendor.

The status of this work effort will be provided on the June 14, 2011 APT conference call and at the APT portion of the July 2011 LNPA WG meeting.

Action Item 091311-APT-02: As a part of the effort to review and update the Vendor ITP and Service Provider Turn-up Test Plans, the **APT Test Plan Sub-team** will identify to the full LNPA WG any functionality that is recommended for consideration to be sunsetted.

- John Nakamura, Neustar, reported that no conference calls were held since the last LNPA WG meeting. Work is continuing to update the TUT test cases. A follow-up call will be scheduled to get through the SV sections. A review will be then held in the APT.
- A Service Provider asked for the ability to do a series of test cases for simpler cases that could be performed by the SP in advance and have the test engineer come in later to verify the results. This will be considered.
- Both Action Item 051011-16 and Action Item 091311-APT-02 remain open.

Discussion of Alternative Interface (NANC Change Order 372) – All:



NANC 372 -
Alternative NPACInte



NANC 372 - CMIP
and HTTPS pics in PDF

Action Item 061212-APT-01: Neustar will develop a naming convention/nomenclature table to be added to IIS3_4_1aPart_2_CMIPversusXML-v1.docx document. This document is to be distributed to the group prior to the July 10-11, 2012 LNPA WG meeting for review.



IIS3_4_1aPart_2_C
MIPversusXML-v2.doc



NPAC XML
abbreviations and lon

- Neustar teed up for discussion the attached document containing NPAC XML abbreviations and long names, explaining how the 4 alpha mnemonic abbreviations are structured.
- A Service Provider asked if the use of long vs. abbreviated names is a significant performance consideration. A Local System Vendor suggested that we use the

long form during the discussions and then have a separate subsequent discussion on translating to the short form.

- A Service Provider expressed concern related to the impacts of T1 performance for national carriers with using the larger XML message size. Neustar said that they built a tool that converts long name to short name over the interface. The Service Provider stated that their systems people feel that 4 characters are not enough. Neustar suggested that the more common messages could be sent with 4 characters and the rarer messages could be sent using the long names. The CMIP messages that are sent over the interface today are binary and are not readable.
- Action Item 061212-APT-01 was closed.

Action Item 061212-APT-02: Neustar will complete draft XML Schema documentation and distribute to the group prior to the July 10-11, 2012 LNPA WG meeting for review in Mont Tremblant.



NPAC-XML Schema
v0.10I L2N.pdf



NPAC-XML Schema
v0.10I N2L.pdf



NPAC-XML Schema
v0.10I.txt

- Neustar reviewed the Schema documents with the group via Webex. Modify scenarios were reviewed first, then Cancel scenarios, Disconnect scenarios, Conflict scenarios, LSMS Filter NPA-NXX scenarios, NPA split scenarios, and SPID migration scenarios. These are the non-pooled flows.
- The group then reviewed the Audit flows and Pooling flows.
- Action Item 061212-APT-02 was closed.

Action Item 061212-APT-03: Service Providers will investigate and determine whether or not the Service Provider functionality to CREATE, MODIFY or DELETE Network Data (Service Provider, NPA-NXX, LRN) over the Interface from their LSMS is being utilized in production, for discussion during the July 10-11, 2012 LNPA WG meeting in Mont Tremblant. The functionality in question does not include Query Request of network data to the NPAC, or the receipt of downloaded network data from the NPAC, which are included in the XML flows.

- Action Item 061212-APT-03 will remain open.

Action Item 061212-APT-04: Neustar, Vendors and Service Providers will provide feedback from their individual companies at the July 10-11, 2012 APT meeting regarding the impact of 4-digit neumonics VS spelled out Message and attribute names on bandwidth with a T1 being utilized for communication. They will also come to the meeting prepared to discuss their positions regarding bandwidth VS readability at that time.

- Action Item 061212-APT-04 will remain open.

Action Item 050812-APT-01: Regarding the continuing development of the technical requirements for NANC Change Order 372 – Alternative NPAC Interface – Neustar will develop a list of items that need to be completed and a proposed timeline to complete each. This will be reviewed and discussed at the July 2012 APT meeting.

- Action Item 050812-APT-01 will remain open. Neustar will distribute a draft for review on the August 7, 2012 APT conference call.
- Neustar will make all changes to the NANC 372 documentation agreed to at the July 10, 2012 APT meeting and distribute them to the LNPA WG in preparation of the September 11, 2012 APT meeting.
- Service Providers are to provide feedback on the mix of range operations vs. individual TN operations for network migrations that would be part of a 25K TN migration. This will be discussed at the September 11, 2012 APT meeting as part of the NANC 372 discussion.

APT Action Items Not Previously Discussed in Agenda – All:



MAY_8_2012 LNPA
WG APT ACTION ITEMS



June_12_2012 LNPA
WG APT Action Items

Review of May 8, 2012 LNPA WG APT Action Items:

May 8, 2012 LNPA WG APT Action Items:

- Item 050812-APT-01: This item remains Open.

June 12, 2012 LNPA WG APT Action Items:

- Item 061212-APT-01: This item has been completed and is Closed.
- Item 061212-APT-02: This item has been completed and is Closed.
- Item 061212-APT-03: This item remains Open.
- Item 061212-APT-04: This item remains Open.

LNPA WG APT Action Items Remaining Open from Previous Meetings:

- Item 051011-16: This item remains Open.
- Item 091311-APT-02: This item remains Open.

Discussion of Need for Interim APT Call(s) – All:

- Test plan calls will be scheduled separately.
- A full APT call will be held on August 7, 2012 from 11am to 1pm Eastern to continue the NANC 372 discussion. The dial-in bridge number is 888-412-7808, pin 23272#.

Next APT Call...August 7, 2012 from 11am to 1pm Eastern...Dial-in bridge number is 888-412-7808, pin 23272#

***Next APT Meeting ...Part of the September 11-12, 2012 LNPA WG Meeting...
Location... Denver, Colorado ...
Hosted by CenturyLink and Tekelec***

FULL LNPA WORKING GROUP DISCUSSION:

TUESDAY 07/10/12

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JULY 10-11 2012
FULL LNPA WG ACTIC

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- Continuing evaluation during 2012 will determine if interim conference calls are needed or if the decision to meet face-to-face every other month should be revisited.

May 8-9, 2012 Full LNPA WG Meeting Minutes Review:

- No changes were made to the DRAFT May 8-9, 2012 Full LNPA WG meeting minutes, and they were approved as FINAL.

OBF Ordering Solutions Wireless Service Ordering (WSO) Subcommittee Update (Deb Tucker, Verizon Wireless):

- The Wireless Service Ordering Subcommittee has not met since the May 2012 LNPA WG meeting. No new issues were introduced and the existing issues below remain open.
- Issue 3441 – WICIS: ICP Validation Change for SUP 1. This issue addresses situations when an Old Service Provider does not receive port cancellation SUP 1s that the New Service Provider has sent prior to responding with Resolution Required or Confirmation responses. Frequency of occurrences is still under review.
- Issue 3442 - WICIS: 90 Day Due Date. This issue addresses the specific situations where a wireline provider sends a port request to a wireless provider with a desired due date greater than 90 days. WICIS has a 90 day restriction on desired due date intervals where the LSR has no restriction. No objections were raised to move forward with removing the restriction on the Desired Due Date and Time (DDD_T) field when NPDI = “B” for wireless to wireline ports. The next step is to review proposed changes to the WICIS document.
- Issue 3429 – WICIS Review for Alignment and Business Practices. This is a blanket issue opened to review the WICIS document for any needed updates.
- The next OBF Ordering Solutions Wireless Service Ordering Subcommittee meeting is scheduled for August 15, 2012.

OBF Ordering Solutions Local Service Ordering (LSO) Subcommittee Update (Linda Peterman, EarthLink Business):

- Since LNPA WG’s May 2012 meeting, the Local Service Ordering Subcommittee (LSO) held a virtual meeting on May 24, 2012. Work was completed on 2 issues, which are now in Final Closure (see below) and discussions were held on other Open Issues.

Issues in Final Closure:

3447	LSOG – Add new Response Type (RT) value
3436	LSOG – Correction to the ACNA and RACNA fields in the Local Service Request (LSR-071) and Resale Frame Relay (RFR-079) forms.

Issues Withdrawn: None

Issues in Initial Closure or Initial Pending: None

Open Issues:

3450	LSOG: Standard Validation and Submission fields for REQTYPE “C” Simple and Non-Simple Port Orders – Participants to socialize suggested path forward for non-simple port validations for potential internal impacts.
3449	LSOG – Allow for multiple Pilot Numbers on Hunt Group (HGI) form – Deferred while different options for vendor solutions are reviewed. Will be withdrawn if vendor solution is reached.
3448	LSOG – Add new Line Activity (LNA) value to require disposition of each Telephone Number when converting – Deferred while being reviewed internally by issue champion.
3443	LSOG: Increase the Name fields’ length in the 71 and 72 practices – Deferred until issues 3381 and 3382 are completed & to be worked in conjunction with issue 3450.
3382	LSOG: Standardization and consolidation of Directory Listings Inquiry/Response and Listing Reconciliation (from LSOG6) all into the 111 Practice – Following 3381
3381	LSOG: Standardization of directory listings in the 102 Practice – Work in progress
3373	LSOG: Standardization of RT of “Z” in the 099 practice for REQTYP “C” to be utilized by all providers - Deferred until issues 3381 and 3382 are completed.

New Issues: None

- Diane Schlenger (Ericsson) to submit new Issue for 070 practice to align definition of “Optional” with ASOG Issue 3453.
- The LSO has the following face-to-face meetings scheduled:

DATE	CALL DETAILS
7/23-26/2012	LSO Face-to-Face Meeting Location: Sterling, VA Host: Neustar Agenda: <ul style="list-style-type: none">• Issues 3381 and 3382.• Discuss participant feedback regarding suggested approach for progressing work on Issue 3450• Level set expectations for progressing work on Issue 3450.
9/24-27/2012	LSO Face-to-Face Meeting Location: St. Louis, MO or Milwaukee, WI Host: AT&T Agenda: <ul style="list-style-type: none">• Issues 3381 (if needed) and 3382.• Begin in-depth discussions on Issue 3450.

Industry Numbering Committee (INC) Update (Dave Garner, Neustar):

INC Issue 692: Update the 5YY requirements for resources and Issue 702: Update Service Description for Use of 5YY Resources:

The demand for non-geographic 5YY-NXXs has increased substantially over the past few years, and the use of these resources has evolved with technology. The current Personal Communications Services (PCS) 5YY NXX Code Assignment Guidelines document specifies guidelines for the assignment of non-geographic NXX codes within 5YY NXX’s used for personal communications services.

Due to the evolving use of these resources, INC determined the guidelines should be updated with a new service description and appropriate requirements to ensure NANPA and 5YY applicants have a clear understanding of the criteria necessary to obtain these numbers.

INC issues involving the 5YY guidelines address a broad range of updates to the 5YY guidelines, some of which include:

- 1) Issue 702 -- created a new name for this numbering resource to better describe this numbering resource, but generic enough to cover new technologies, applications and uses. It was agreed that the 5YY Resources would now be

“Non-Geographic 5XX-NXX Codes Assignment Guidelines.”

- 2) Issue 703 -- determined that Non-Geographic 5XX-NXX Code resources are mainly used for application and device communications, and therefore the NPA does not need to be an Easily Recognizable Code (ERC). Therefore, INC directed NANPA to set aside all available NXX codes in the 52X, 53X, 54X, 55X, 56X, 57X and 58X NPAs for future Non-Geographic 5XX-NXX Code use.
 - 3) Issue 692 -- modified the current 5YY NXX Code Assignment Guidelines in areas such as:
 - a) Requiring that applicants to provide documentation to NANPA to demonstrate authority to provided service,
 - b) Update the service description for these resources to better reflect their use for machine-type communications and applications,
 - c) Provide additional definition concerning the criteria necessary to obtain and retain these non-geographic resources,
 - d) Define the quantity of code resources that can initially be assigned,
 - e) Define the requirements regarding a minimum utilization threshold for existing 5YY resources as a pre-requisite for the assignment of additional 5YY NXX codes.
- These issues have been placed in Initial Closure status and are awaiting approval and implementation of a NANPA change order:

INC Incoming Correspondence: GS 700 – ITU Announcement on Allocation and Assignment of Country Code 888:

Shown below is the April 14, 2012 ITU announcement regarding Country Code 888. The announcement is a request from Voxbone SA, the agent for the *United Nations Office of the Coordinator for Humanitarian Affairs (OCHA)*, requesting cooperation from the telecommunications providers and national regulators for the immediate implementation of country code +888.

United Nations OCHA (country code +888)
Communication of 17.XI.2011

The *United Nations Office of the Coordinator for Humanitarian Affairs (OCHA)*, acting through its agent *Voxbone SA* in respect of the assignment of the country code +888, requests the cooperation of telecommunication providers and national regulators regarding the immediate implementation of the country code +888 into their networks and country. The end-user tariff to reach these numbers should be lower or similar to the tariff of a national call.

The +888 dialing plan will consist of +888 followed by eleven digits, i.e. +888 XXX XXX XXXXX.

The E.164 geographic country code / numbering range +888 has been allocated to OCHA on 4th May 2007 and published in the Bulletin 885 of 1.VI.2007 for the purpose of facilitating the provision of an international system of naming and addressing for terminals involved in disaster relief activities in an area of a country that has been cut off from the national telecommunications system of that country until such time as normal telecommunications can be restored. The use of these numbering resources will therefore be relatively short lived and the resource may be re-used at a later date for another location. On 11 February 2011 Voxbone SA and OCHA entered into an agreement according to which Voxbone SA will act as OCHA's agent for the implementation and routing of the +888 numbering range/ country code. Subsequent digits of the codes will be allocated and administered by OCHA.

Contact:

iNum department
Voxbone SA
Avenue Louise 489
1050 BRUSSELS
Belgium
Tel: +32 28 08 00 00
E-mail: inum@voxbone.com

NANC Future of Numbering Working Group Update (Adam Newman, Telcordia and FoN Tri-Chair):

- Adam Newman, Telcordia and FoN Tri-Chair, reported that no FoN meeting has been held since the last report given at the May 2012 LNPA WG meeting.
- The FoN continues to discuss M2M activities and potential impacts on NANP resources.
- The next FoN meeting will be held in August.

Report of May 23rd 25K Industry Load Exercise – Neustar:



2012-05-23 Industry
Load Test (NANC 397)

- Neustar reviewed the results of the May 23rd 25K industry load exercise, stating that overall it was very successful (see attached for further details).
- 25,000 active SVs in each U.S. NPAC were modified and broadcast (175,000 total).
- All LSMSs participated in the exercise. No LSMSs were in backlog or recovery when the exercise began.

- 237 of 249 (95%) of the LSMSs performed flawlessly (no delays).
- 12 of 249 (5%) of the LSMSs were behind at some point in taking downloads by at least 1,000 transactions (at least 144 seconds). 4 SPIDs were involved.
- 242 of 249 (97%) of the LSMSs had taken all of the downloads by 6:10 am Eastern.
- At end of the exercise – 6:00 am Eastern – one SPID’s LSMSs owned 77% of the backlog.
- The Neustar NPAC team will reach out to the 4 SPIDs that fell behind separately to discuss their LSMS performance.
- With the success of the load test in terms of overall LSMS performance, there were no objections to increasing the Large Port Notification threshold from the current 15,000 level to 25,000.
- **Neustar** will notify the industry via the Cross-Regional distribution that the LNPA WG has agreed to raise the large port notification threshold to 25K.

Discussion of INC Issue 722: Review and Reconcile TN Administration Guidelines with Updated NANC LNP Flows – All:

Action Item 050812-LNPAWG-04: Gary Sacra, LNPA WG Co-Chair, will revise Step 7 in the attached Narrative to Figure 14 – Disconnect Process for Ported Telephone Numbers – to delete the reference to the 18 month maximum interval between disconnect date and effective release date. This will be reviewed at the July 2012 LNPA WG meeting.



NANC_OPS_Flows_Narratives v4.1 (04-16)

- The group reviewed the draft change to Figure 14 – Disconnect Process for Ported Telephone Numbers – which deletes the reference to the 18 month maximum interval between disconnect and effective release date.
- There were no objections to accepting the change to the Figure 14 Narrative (see attached above). It was agreed that this changed flow will eventually be presented to the NANC.
- Action item 050812-LNPAWG-04 was closed.
- **Neustar** will update the NANC flows for Disconnects based on the revision agreed to by the LNPA WG for review at the September 2012 LNPA WG meeting.

Review & Update of LNPA WG Best Practices Document – All:



LNPA_NP_Best_Practices_05-01-2012.doc

Action Item 091311-LNPAWG-05: All **Service Providers** are to review the attached PIM 53 (Inadvertent Port) Contact List and provide any missing or updated contact information to the LNPA WG Co-Chairs by October 31, 2011. The Co-Chairs e-mail addresses are: gary.m.sacra@verizon.com (Gary Sacra), paula.jordan@t-mobile.com (Paula Jordan), and lpeterman@corp.earthlink.com (Linda Peterman).



PIM 53 Service Provider Contact v7.c

- Action Item 091311-LNPAWG-05 was closed given that there have not been any updates received in quite awhile.

Action Item 031511-04: **Paula Jordan**, T-Mobile and LNPA WG Co-Chair, and **Jason Lee**, Verizon, and **Teresa Patton**, AT&T, and **Tracey Guidotti**, AT&T, will document in LNPA WG Best Practice 30 requirements for ICP during the permissive dialing period for NPA splits. This will be reviewed and discussed at the May 2011 LNPA WG meeting.

- The group continues to work on pros and cons and items that need to be considered. Action Item 031511-04 remains open.

Action Item 050812-LNPAWG-03: **Jan Doell**, CenturyLink, will revise the Powerpoint flow for Figure 12 of the NANC LNP Provisioning Flows based on the attached LNPA WG-approved Figure 12 Narrative for the Cancel Flow and send it to Neustar to be converted to Visio. This will be reviewed at the July 2012 LNPA WG meeting. See related Action Item 05-812-LNPAWG-01.



Cancel Flow
12_Markup_JAD.pptx

Action Item 050812-LNPAWG-01: **Neustar** will convert the attached Powerpoint version of Figure 12 of the NANC LNP Provisioning Flows into Visio for review at the July 2012 LNPA WG meeting. See related Action Item 050812-LNPAWG-03.



NANC_OPS_Flows_Narratives v4.2 - 06-30



NANC Flows v4.2 - 07-02-2012.pdf

- The group again reviewed the accepted changes to the Figure 12 Cancel Flow.
- **Neustar** will update the NANC flows for Cancels based on revisions agreed to by the LNPA WG for review at the September 2012 LNPA WG meeting.

Next Steps for Best Practices Review and Update – All:

- The group agreed that we will make another pass through the Best Practices document in the LNPA WG prior to taking it back internally within our individual companies for review and any subsequent suggested changes, and then subsequently determine if/how we will take all or selected parts of the document to NANC.

FULL LNPA WORKING GROUP DISCUSSION:

WEDNESDAY 07/11/12

Wednesday, 07/11/12, Attendance:

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Lavinia Rotaru	Neustar	Luke Sessions	T-Mobile
Jim Rooks	Neustar	Gary Sacra	Verizon
Paul LaGattuta	Neustar	Deb Tucker	Verizon Wireless
Stephen Addicks	Neustar	Imanu Hill	Vonage

Name	Company	Name	Company
John Nakamura	Neustar	Traci Brunner	Windstream (phone)

MEETING MINUTES:

PIM Discussion:

- PIM 80 – This PIM submitted by Verizon, seeks to address instances where ported/pooled NPAC database records currently contain LRNs that are in a LATA different from their associated ported/pooled telephone numbers (TNs).



PIM 80.doc

The LNPA WG’s recommendation to the NAPM LLC to request a Statement of Work (SOW) from Neustar for PIM 80 was sent to the NAPM LLC. It was decided to perform the work without an SOW. PIM 80 will remain in a tracking state.

July 2012 status: 27 SVs remain, of which 12 will be taken care of in August. The remaining 15 will likely remain for awhile due to inability to make SP contact. 2 pooled blocks remain and the SP is unable to be contacted.

Change Management – Neustar:



NANC Change Orders 06-30-12.doc

- NANC 372 – updated documents for NANC 372 are now embedded in the Change Order document attached above.
- NANC 449 Discussion – Comcast and Neustar:
 - Neustar and Comcast reviewed the updated NANC Change Order 449 with the group (refer to updated NANC 449 documentation embedded in the NANC Change Order document attached above.
 - The following current working assumptions for NANC 449 have been added:
 - Functionality applies to two (2) or more SOA connections at the same time.
 - Performance expectation is on a per SOA basis, not a per SPID basis.

- Notifications would be recoverable such that if SOA A was not associated and notifications were instead sent to SOA B, that SOA A would be able to get those missed notifications via recovery.
 - Service Provider tunables (i.e., “SPIDables”) need to be evaluated to determine which can remain as at the Service Provider level, and which would need granularity at the SOA level.
- Question asked by a Service Provider – if you have multiple SOAs, does that mean performance is 7 transactions per second for each SOA? Comcast answered that the intent is 7 transactions per second for each SOA.
- A Service Provider asked if this Change Order is for 2 SOAs or for 2 or more SOAs. Comcast responded it is for 2 or more SOAs. AT&T objected to 2 “or more.” Windstream agreed with AT&T. A call by the Co-Chairs for any additional objections resulted in none. Since only 2 objections to the “or more” were voiced, it was determined that there was no consensus to change “2 or more” to only 2.
- The next step for NANC 449 will be to look at the FRS to determine what will require updating. Neustar will provide a red-line of the FRS.

SPID Migration Enhancement Discussion – All:

Action Item 031312-LNPAWG-09: Service Providers are to determine if they have experienced any challenges to using the current SPID migration enhancements via the LTI and come to the May 2012 LNPA WG meeting prepared to discuss any suggestions for improving the process and its access. See related Action Item 031312-LNPAWG-01.

- A Service Provider asked if there was support for having the NPAC automatically recreate SVs with the new SPID for those that are canceled prior to the migration. It was stated that determining the LRN and DPC data for the new SPID would be problematic.
- Since no additional Service Providers cited any problems with the current process, the group agreed to close Action Item 031313-LNPAWG-09.

Discussion of 2012 Meeting/Call Agenda Items – All:

Action Item 110911-LNPAWG-06: All LNPA WG Participants are to provide any ideas for 2012 LNPA WG meeting and call agenda items to the Co-Chairs for discussion at future meetings.



Brainstorming of
Possible Future LNPA

- **Gary Sacra**, LNPA WG Co-Chair, will place the following items on the agenda for the September 2012 LNPA WG meeting:
 1. Review of the Open/Accepted NANC Change Orders,
 2. 2013 Meeting Schedule,
 3. 2013 SPID Migration Blackout Schedule.
- The group agreed to close Action Item 110911-LNPAWG-06.

Review of 2012 LNPA WG Meeting/Call Schedule – All:



2012 LNPA WG
Meeting and Call Sche

- Other than the addition of the August 7, 2012 APT call, no additional changes were made to the 2012 LNPA WG meeting/call schedule.

Processes for Addressing Regulatory Non-compliances and Checklist for Future FCC Mandates – All:

- Linda Peterman, Earthlink Business and LNPA WG Co-Chair, volunteered to head a sub-group to develop a draft process for addressing regulatory non-compliances and a draft checklist for future FCC mandates. Additional volunteers to participate are Traci Bruenner, Windstream, and Ron Steen, AT&T. Anyone who would like to participate should send an e-mail to Linda Peterman at lpeterman@corp.earthlink.com.

Discussion of Need for August 7, 2012 LNPA WG Call – All:

- The group agreed to hold an APT call to continue discussions of NANC 372 - Alternative Interface requirements - on August 7, 2012, from 11am-1pm Eastern. The dial-in bridge number is 888-412-7808, pin 23272#.
- No Full LNPA WG call will be held in August 2012.

Unfinished/New Business – All:

- New SP Activation Prior to LSR/FOC Exchange – Jan Doell, CenturyLink
 - Jan stated that CenturyLink is still working through these issues internally and is pulling this issue off the agenda for now, but reserves the right to possibly

bring in a PIM at a later point if their investigation uncovers a systemic problem. Another Service Provider stated that they also have issues with Old SPs that send up their create message to NPAC before sending the FOC. It was stated that the Old SP concurrence in NPAC does not replace the need for an FOC before the port can be activated.

Action Items Not Previously Discussed in Agenda – All:



MAY 8-9 2012 FULL
LNPA WG ACTION ITI

Review of May 8-9, 2012 FULL LNPA WG Action Items:

May 8-9, 2012 FULL LNPA WG Action Items:

- Item 050812-LNPAWG-01: This item has been completed and is Closed.
- Item 050812-LNPAWG-02: This item has been completed and is Closed.
- Item 050812-LNPAWG-03: This item has been completed and is Closed.
- Item 050812-LNPAWG-04: This item has been completed and is Closed.

FULL LNPA WG Action Items Remaining Open from Previous Meetings:

- Item 031511-04: This item remains Open.
- Item 091311-LNPAWG-05: This item has been Closed.
- Item 110911-LNPAWG-06: This item has been completed and is Closed.
- Item 031312-LNPAWG-09: This item has been completed and is Closed.

Next Call...August 7, 2012 APT call from 11am to 1pm Eastern...Dial-in bridge number is 888-412-7808, pin 23272#

Next Meeting ... September 11-12, 2012... Location... Denver, Colorado ... Hosted by CenturyLink and Tekelec